

Bang & Olufsen

Red Line

RL 1000

RL 2000

RL 6000

RL 7000

RL 1000, TYPE 6520

RL 2000, TYPE 6521

RL 6000, TYPE 6522

RL 7000, TYPE 6523

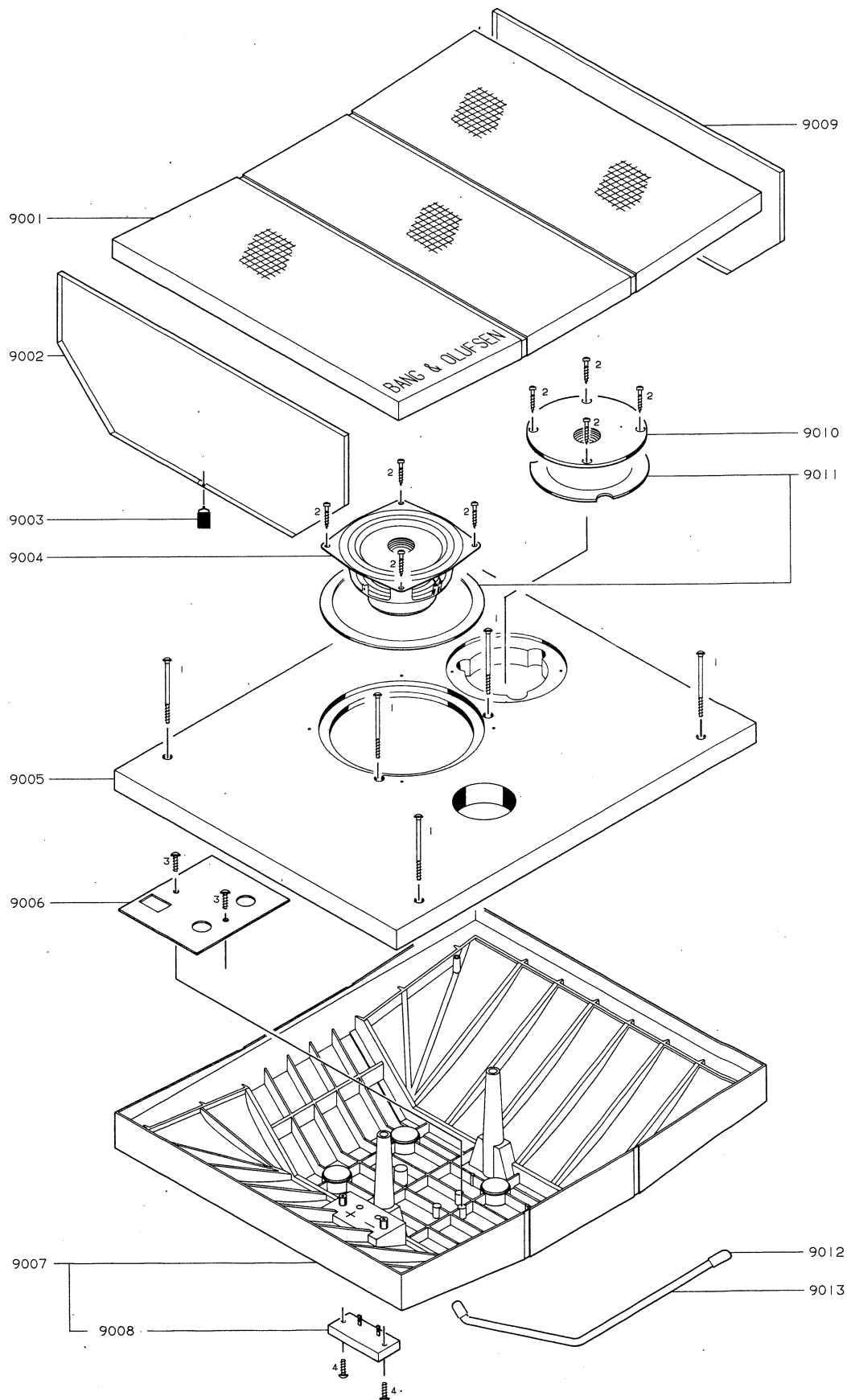
SERVICE MANUAL



13-1

Bang & Olufsen

RL 1000, type 6520



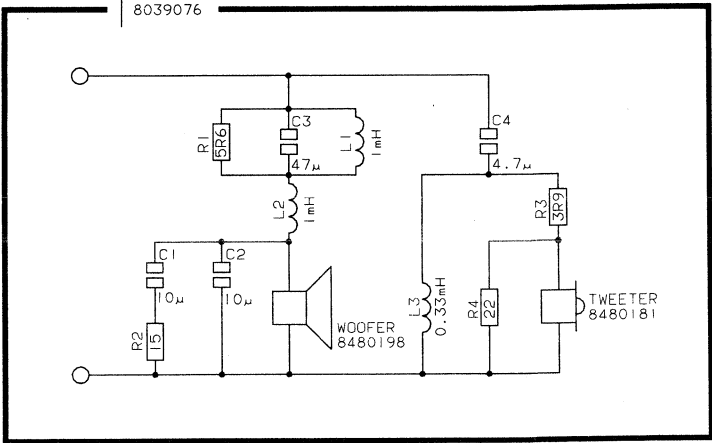
RL 1000, type 6520

Technical specifications

RMS power handling capacity	35 watts
Music power handling capacity	50 watts
Impedance	8 ohms
Frequency range +4 -8 dB	48-20,000 Hz
Power at 96 dB SPL	2.5 watts
Sensitivity 1 W	92 dB
Distortion 250-1000 Hz	<1%
Distortion >1000 Hz	<0.7%
Cabinet principle	Bass Reflex
Woofers	5" - 13 cm
Tweeter	3/4" - 1.8 cm
Crossover frequency	3500 Hz
Net. volume	10 litres
Dimensions W x H x D	40 x 32 x 12.5 cm
Weight	3.5 kg

Subject to change without notice

List of Electrical Parts



R1	5100297	5.6Ω 10% 3W	R3	5100295	3.9Ω 10% 3W
R2	5100200	15Ω 10% 3W	R4	5100055	22Ω 10% 3W

C1- C2	4200337	10μF 20% 23V	C3	4200729	47μF 20% 23V
			C4	4200387	4.7μF 20% 23V

When replacing coils L1-L3, order complete crossover network

List of Mechanical Parts

9001	3440132	Baffle with black cloth	9006	8039076	Crossover network
	3440133	Baffle with grey cloth	9007	3414261	Cabinet, black
				3414272	Cabinet, white
9002	3940195	Ribbon	9008	7210662	Double connection terminal
9003	2630025	Clamping pin	9009	3940195	Ribbon
9004	8480198	Woofers	9010	8480181	Tweeters
9005	3440140	Front frame with gasket	9011	3340050	Set of gaskets
	3947350	Gasket by the meter	9012	3341063	Rubber foot
			9013	2514063	Support bow

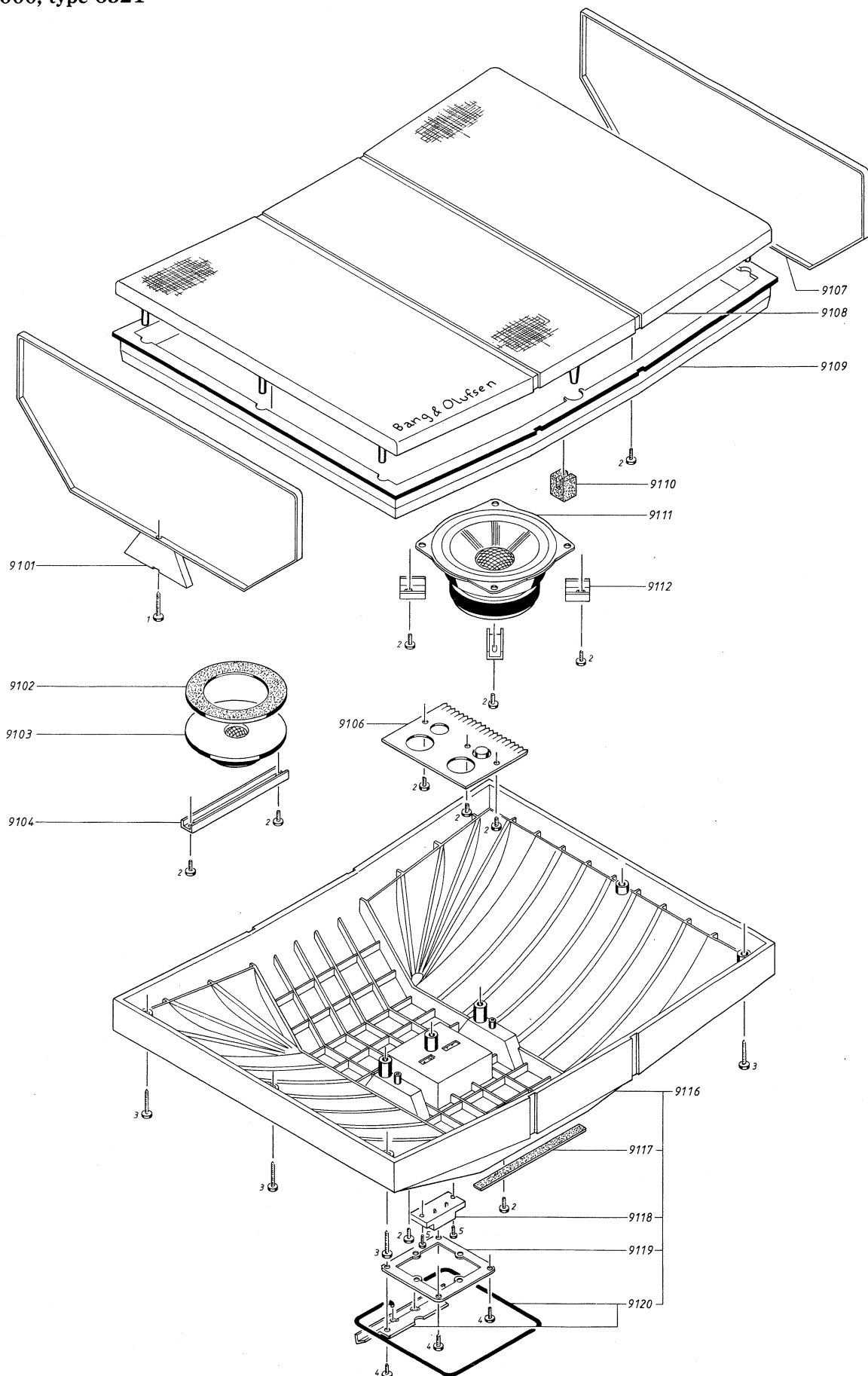
1	2015112	Screw 3.5x50	3	2019009	Screw 4x12
2	2084048	Screw 4x25	4	2013123	Screw 3x10

Survey of screws

Parts not shown

3162283	Cover f. bracket	3922031	Damping material, small
3390296	Bag		
3391888	Outer carton	6270479	Cable 5 m
3397615	Foam packing, set	3506169	Setting up guide
3922030	Damping material, big		

RL 2000, type 6521



RL 2000, type 6521

List of Mechanical Parts

9101	3940243	Ribbon set
9102	3340067	Gasket
9103	8480199	Tweeter
9104	3031143	Fitting
9106	8039072	Crossover network
9107	3940243	Ribbon set
9108	3440134	Baffle with black cloth
	3440135	Baffle with grey cloth
9109	3320193	Frame for cabinet
	3340055	Gasket for frame
9110	3907045	Rubber block
9111	8480203	Woofers
	3340048	Gasket for woofers
9112	3031124	Fitting
9116	3414279	Cabinet, black
	3414280	Cabinet, white
9117	3912049	Felt piece
9118	7210662	Double connection terminal
9119	3031110	Fitting for wall mounting
9120	2514050	Support bow with fitting

Survey of screws

1	2019012	Screw 4x50
2	2019011	Screw 4x16
3	2019013	Screw 4x40
4	2019009	Screw 4x12
5	2015106	Screw 3.5x10

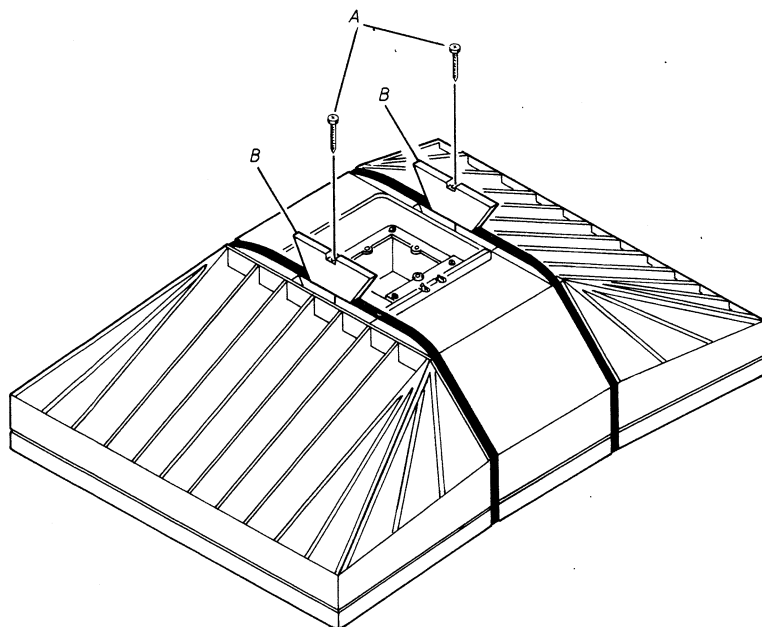
Parts not shown

3031109	Standard mounting bracket
2044015	Adjustment screw
3922018	Rock-wool block, small
3922019	Rock-wool block large
6270479	Cable 5 m
3506169	Setting up guide
3391907	Outer carton
3391909	Insert
3397556	Foam packing set
3390277	Foil bag

RL 2000, type 6521

Adskillelse

Disassembly

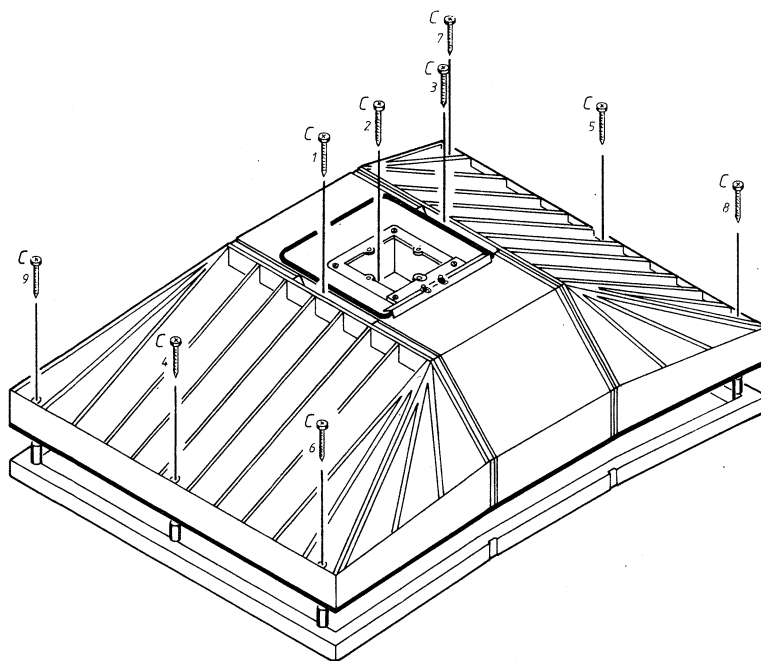


Aftag de to skruer A.

Remove the two screws A.

De to spændestykker B med pyntebånd kan nu aftages.

The two triangles B with ribbon can now be removed.



Aftag de ni skruer C.

Remove the nine screws C.

Bagparten kan nu tages af.

The rear part can now be removed.

Ved samling af højttaleren igen skal skruerne spændes i rækkefølgen 1-9, for at sikre at kabinettet er helt tæt.

When re-assembling the loudspeaker the screws must be tightened in the order 1-9, in order to ensure that the cabinet is completely tight.

Anbefalet tilspændingsmoment er 15 kp/cm.

Recommended torque is 15 kp/cm.

RL 6000, type 6522

List of Mechanical Parts

9101	3940244	Ribbon set
9102	3340101	Gasket
9103	8480209	Tweeter
9104	3031143	Fitting
9106	8039097	Crossover network
9107	3940244	Ribbon set
9108	3440136	Baffle with balck cloth
	3440137	Baffle with white cloth
9109	3320193	Frame for cabinet
	3340055	Gasket for frame
9110	3907045	Rubber block
9111	8480211	Woofers
	3340063	Gasket
9112	3031124	Fitting
9113	8480211	Woofers
	3340063	Gasket
9114	3031124	Fitting
9115	2510151	Clamp
9116	3414279	Cabinet, black
	3414280	Cabinet, white
9117	3912049	Felt piece
9118	7210662	Double connection terminal
9119	3031110	Fitting for wall mounting
9120	2514050	Support bow with fitting

Survey of screws

1	2019012	Screw 4x50
2	2019011	Screw 4x16
3	2019013	Screw 4x40
4	2019009	Screw 4x12
5	2015106	Screw 3.5x10

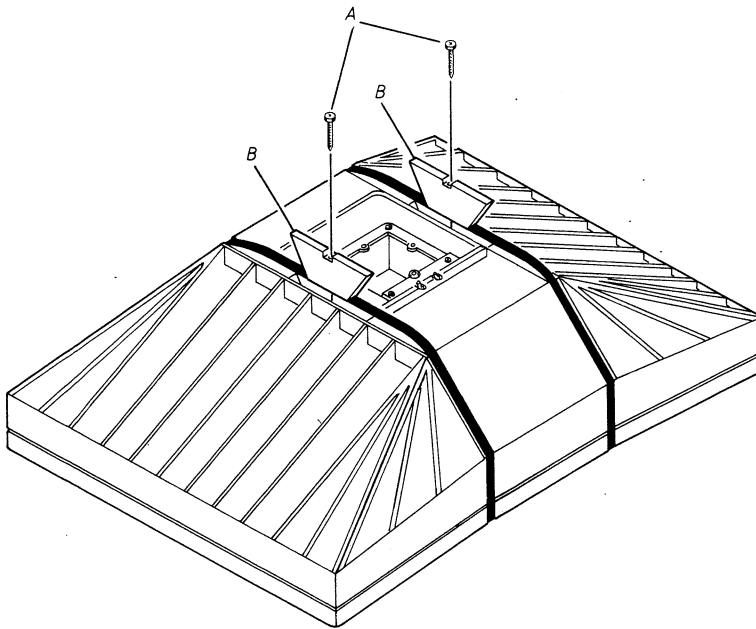
Parts not shown

3031109	Standard mounting brakcet
2044015	Adjustment screw
3922018	Rock-wool block, small
3922019	Rock-wool block, large
6270479	Cable 5 m
3506169	Setting up guide
3391907	Outer carton
3391909	Insert
3397556	Foam packing set
3390277	Foil bag

RL 2000, type 6522

Adskillelse

Disassembly

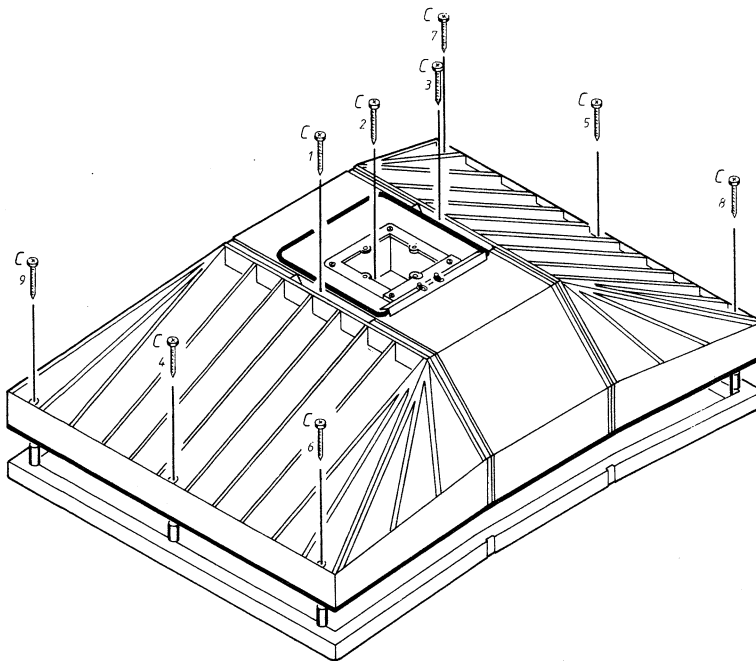


Aftag de to skruer A.

Remove the two screws A.

De to spændestykker B med pyntebånd kan nu aftages.

The two triangles B with ribbon can now be removed.



Aftag de ni skruer C.

Remove the nine screws C.

Bagparten kan nu tages af.

The rear part can now be removed.

Ved samling af højttaleren igen skal skruerne spændes i rækkefølgen 1-9, for at sikre at kabinettet er helt tæt.

When re-assembling the loudspeaker the screws must be tightened in the order 1-9, in order to ensure that the cabinet is completely tight.

Anbefalet tilspændingsmoment er 15 kp/cm.

Recommended torque is 15 kp/cm.

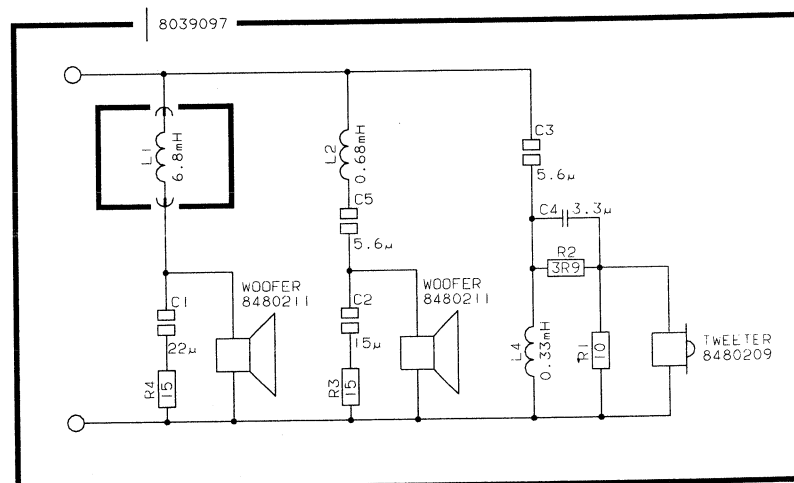
RL 6000, TYPE 6522

Technical specifications

RMS power handling capacity	60 watts
Music power handling capacity	90 watts
Impedance	8 ohms
Frequency range +4 -8 dB	42-20,000 Hz
Power at 96 dB SPL	2 watts
Sensitivity 1 W	93 dB
Acoustic principle	Bass Reflex
Woofer	2 units 5" - 13 cm
Tweeter	1" - 2.5 cm
Crossover frequency	3500 Hz
Net. volume	19 litres
Dimensions W x H x D	54 x 40.5 x 18 cm
Weight	8.3 kg

Subject to change without notice

List of Electrical Parts



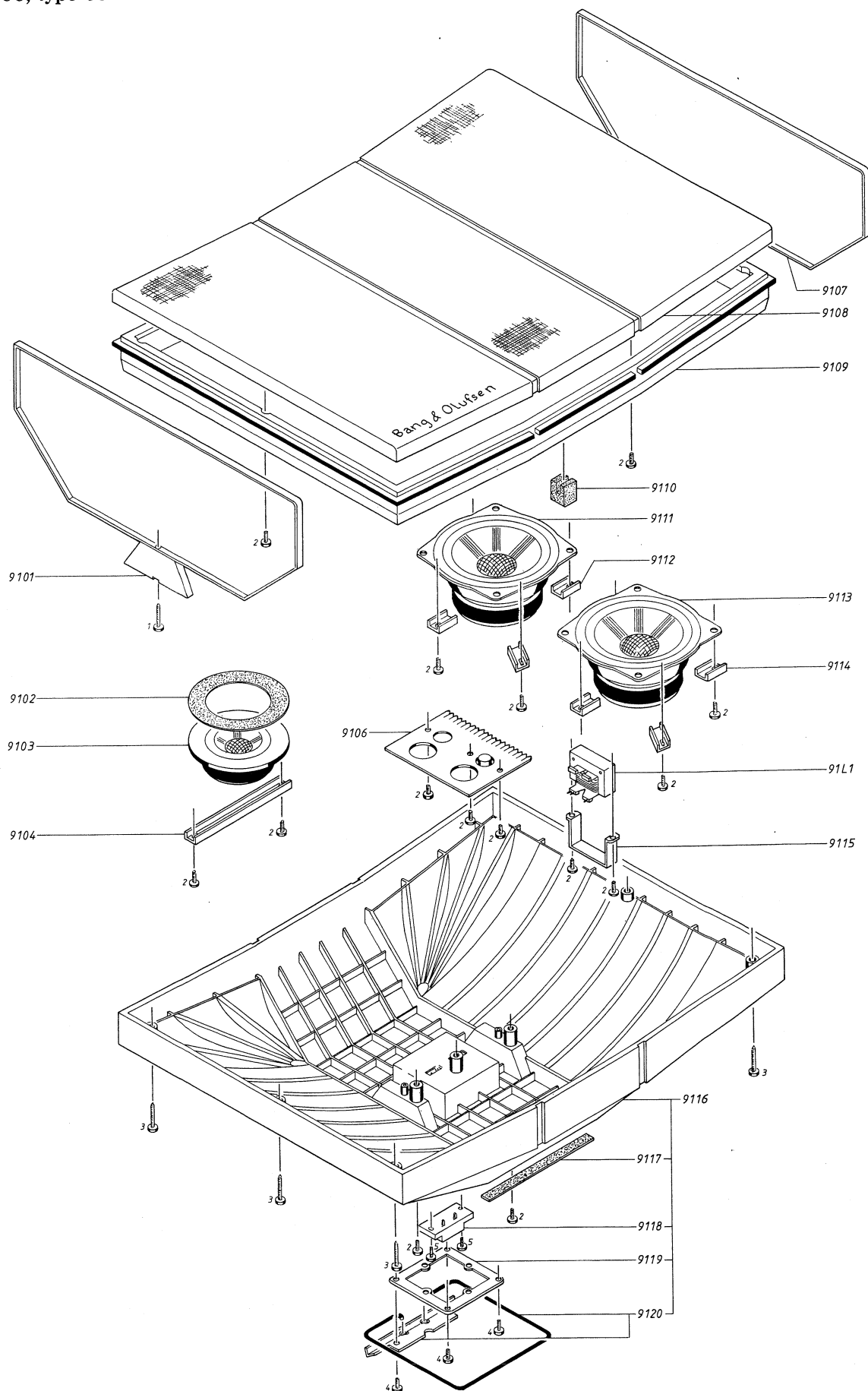
R1	5020587	10Ω 5% 3W
R2	5100295	3.9Ω 10% 3W
R3-	5100200	15Ω 10% 3W
R4		

C1	4200468	22ΩF20% 23V
C2	4200679	15ΩF 10% 35V
C3	4200732	5.6ΩF 10% 35V
C4	4130425	3.3ΩF 5% 100V
C5	4200732	5.6ΩF 10% 35V

L1	6850186	Coil 6.8 mH
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When replacing coils L2-L3, order complete crossover network

RL 6000, type 6522

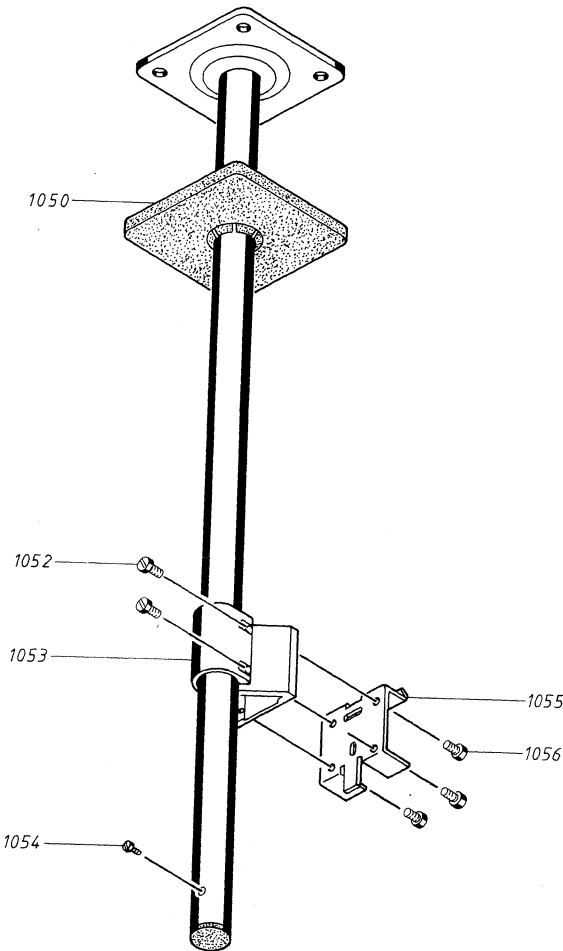


RL 6000, type 6522

Survey of accessories

8960206 Wall Bracket
3390263 Bag w. parts for Wall Bracket

Ceiling Bracket, type 6022



List of Mechanical Parts
8960220

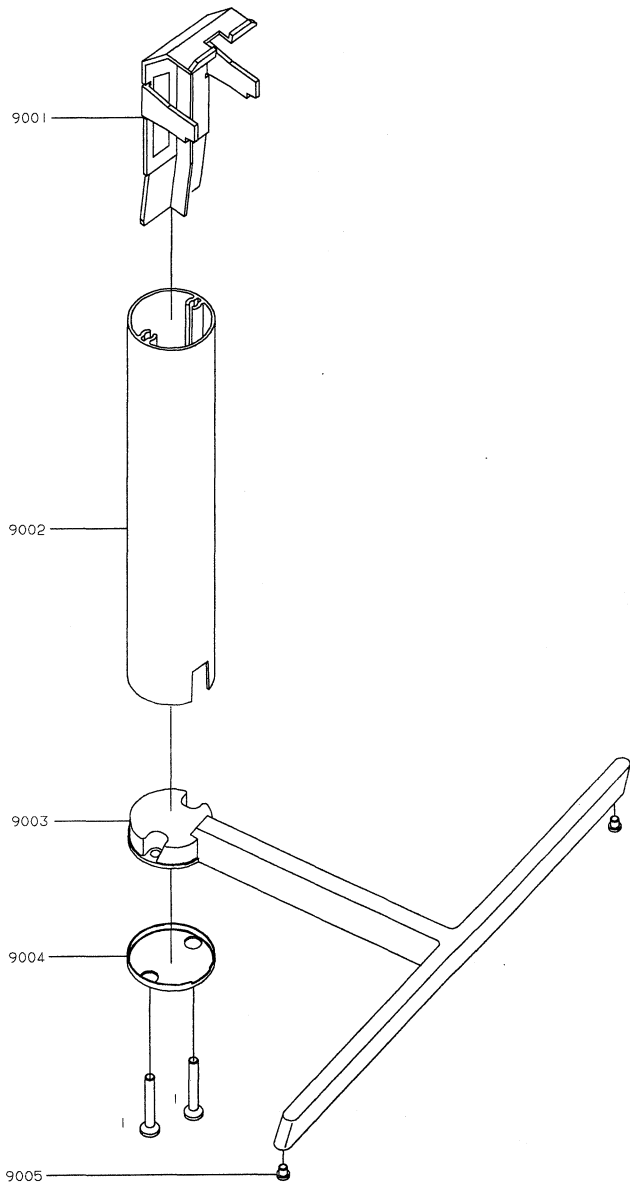
1050	3162224	Cover plate
1052	2044035	Screw AM5x10
1053	2644015	Triangle with ribbon
1054	2042201	Screw AM4x4
1055	3031109	Standard mounting bracket
1056	2044035	Screw AM5x10

Parts not shown

3390262 Bag w. parts

RL 6000, type 6522

Stand, type 6034



List of Mechanical Parts

- 1603413, Grey
- 1603466, Black
- 1603469, Silvergrey

9001	3031311	Fitting
9002	2570075	Stanchion
9003	3103304	Base, Grey
	3103330	Base, Black
	3103331	Base, Silvergrey
9004	3454675	Bottom
9005	3035055	Slide show

Survey of Screws

1	2046013	Screw 6x20
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Parts not shown

3392142	Wrapper
3397717	Foam packing, bottom
3397718	Foam packing, top

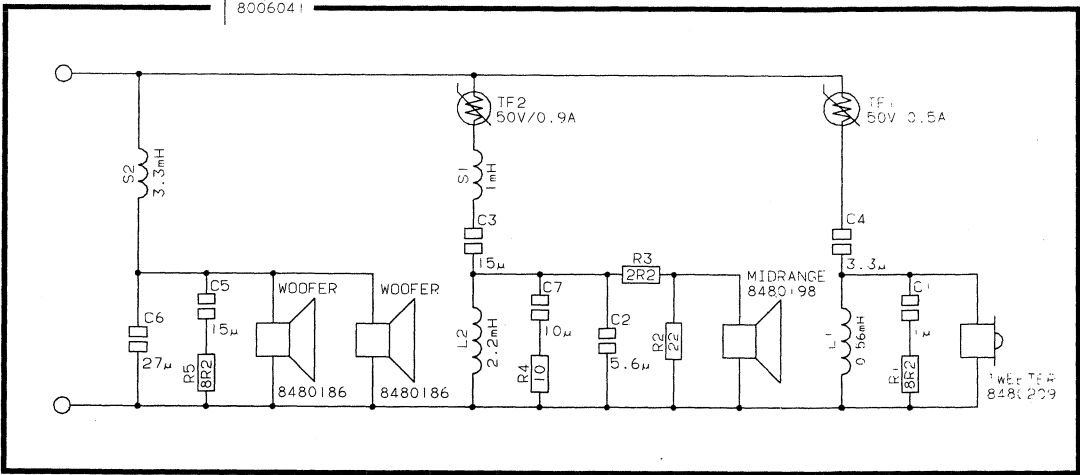
RL 7000, TYPE 6523

Technical specifications

RMS power handling capacity	140 watts
Music power handling capacity	200 watts
Impedance	8 ohms
Frequency range +4 -8 dB	40-20,000 Hz
Power at 96 dB SPL	2 watts
Sensitivity 1 W	93 dB
Distortion 250-1000 Hz	<0.7%
Distortion >1000 Hz	<0.5%
Acoustic principle	Bass Reflex
Woofer	2 units 6½" - 16.5 cm
Midrange	5" - 13 cm
Tweeter	1" - 2.5 cm
Crossover frequency	800/3000 Hz
Net. volume	38 litres
Dimensions W x H x D	70 x 50 x 24 cm
Weight	15 kg

Subject to change without notice

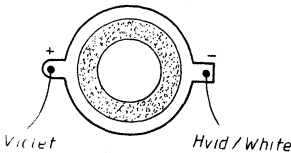
List of Electrical Parts



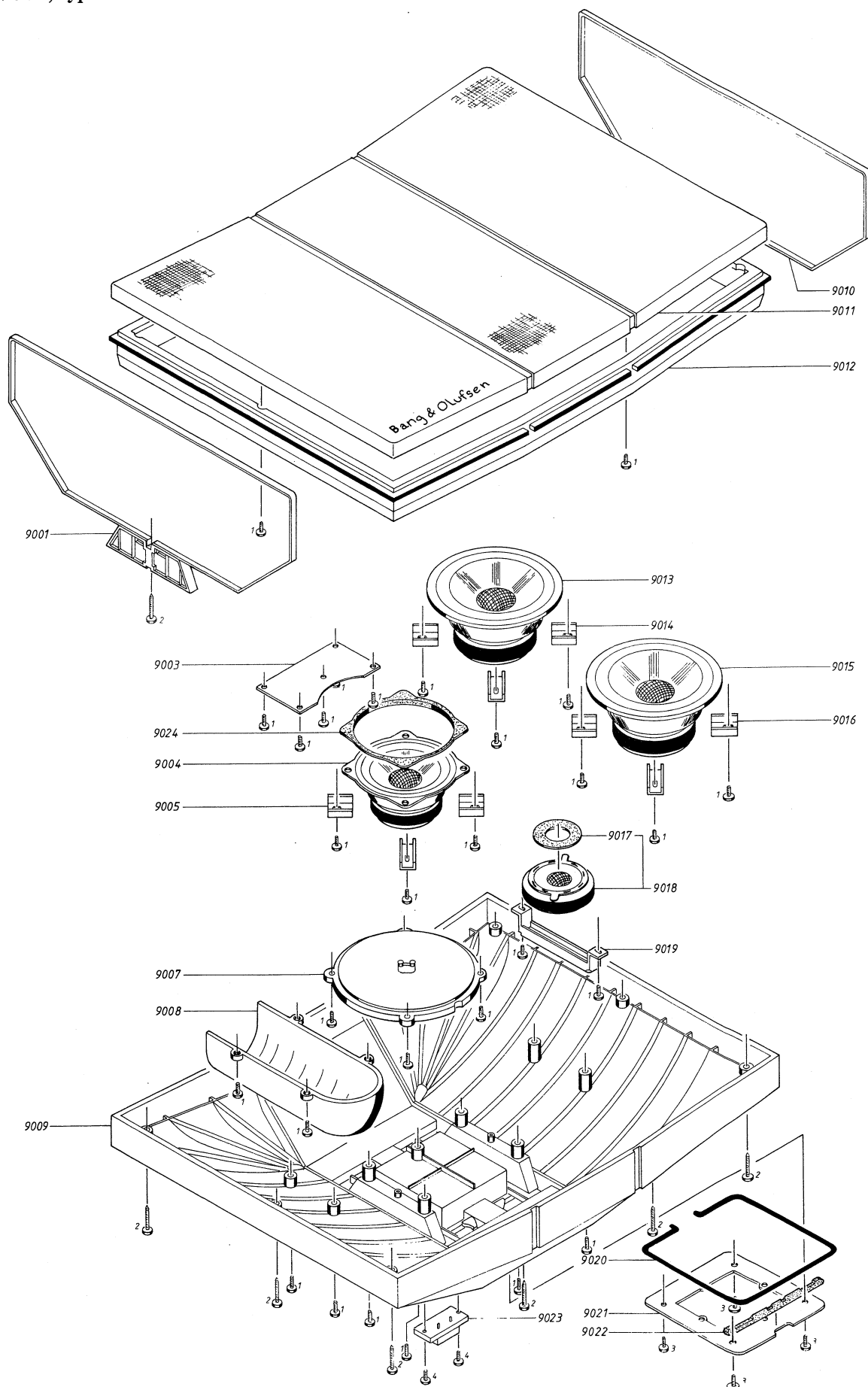
R1	5100074	8.2Ω 10% 3W	R4	5100298	10Ω 10% 7W
R2	5100055	22Ω 10% 3W	R5	5100074	8.2Ω 10% 3W
R3	5100296	2.2Ω 10% 7W			
C1	4130136	1µF20% 100V	C5	4200456	15µF 20% 35V
C2	4200732	5.6µF 10% 35V	C6	4200731	27µF 10% 35V
C3	4200456	15µF 20% 35V	C7	4200687	10µF 10% 35V
C4	4130425	3.3µF 5% 100V			
TF1	6609027	0.5A 50V	TF2	6609028	0.9A 50V

When replacing L1-L2 and S1-S2, order complete crossover network

Polarity on tweeter



RL 7000, type 6523



RL 7000, type 6523

LIST OF MECHANICAL PARTS

9001	3940242	Ribbon set
9003	8006041	Crossover network
9004	8480198	Mid-range loudspeaker
9005	3031124	Fitting for mid-range loudspeaker
9007	3160030	Cover f. mid-range loudspeaker
9008	3458410	Tub f. port
9009	3414262	Cabinet, black
	3414267	Cabinet, white
9010	3940242	Ribbon set
9011	3440138	Baffle with black cloth
	3440139	Baffle with grey cloth
9012	3320196	Frame with gasket for cabinet
	3340062	Gasket for frame
9013	8480186	Woofers
9014	3031124	Fitting f. woofer
9015	8480186	Woofers
9016	3031124	Fitting for woofer
9017	3340101	Gasket for tweeter
9018	8480209	Tweeters
9019	3031143	Fitting for tweeter
9020	2514052	Support bow
9021	3031115	Fitting for wall mounting
9022	3907048	Damping rubber f. support bow
9023	7210662	Double connection terminal
9024	3340063	Gasket for mid-range loudspeaker

Survey of screws

1	2019011	Screw 4x16
2	2019012	Screw 4x50
3	2015113	Screw 3.5x16
4	2015106	Screw 3.5x10

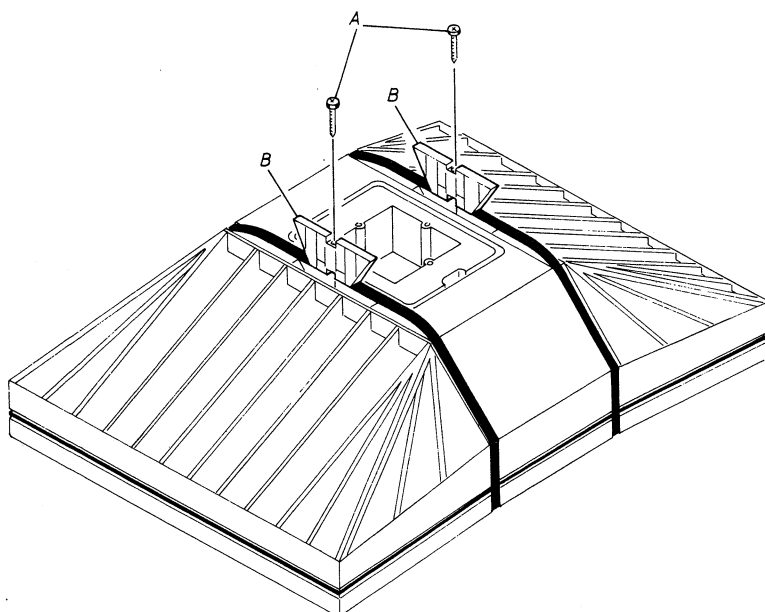
Parts not shown

3031116	Standard mounting bracket
2044015	Adjustment screw
6270479	Cable 5 m
3397587	Foam packing set
3391961	Outer carton
3390274	Bag for loudspeakers
3506169	Setting up guide
3922020	Rock-wool block, 150x450 mm
3922021	Rock-wool block, 75x450 mm
3922026	Rock-wool block, 120x150 mm
3922022	Rock-wool block, 75x200 mm
3922027	Rock-wool block, 49x500 mm

RL 7000, type 6523

Adskillelse

Disassembly

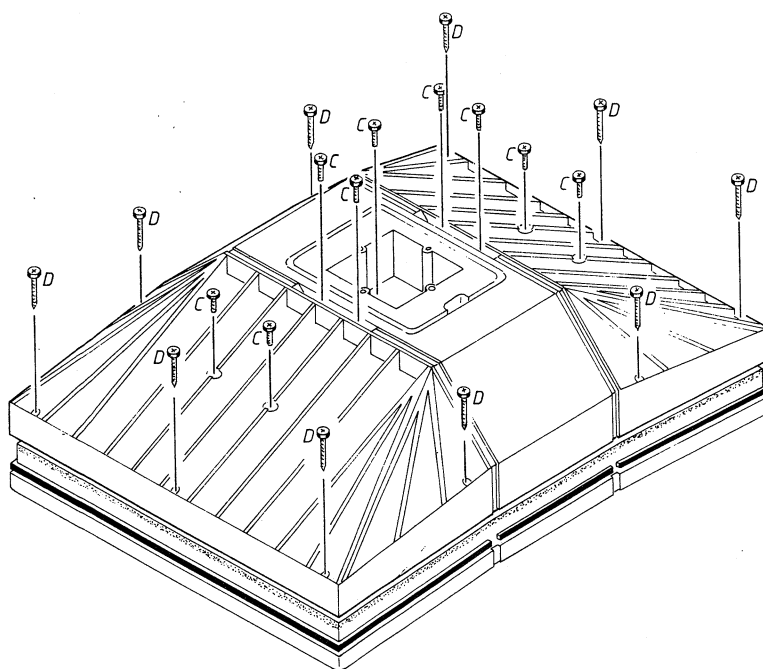


Aftag de to skruer A.

Remove the two screws A.

De to spændestykker B med pyntebånd kan nu aftages.

The two triangles B with ribbon can now be removed.



Aftag de ni skruer mærket C, og de ti skruer mærket D.

Remove the nine screws marked C and the ten screws marked D.

Bagparten kan nu tages af.

The rear part can now be removed.

Ved samling af højttaleren igen anbefales et tilspændingsmoment på 16,5 kp/cm.

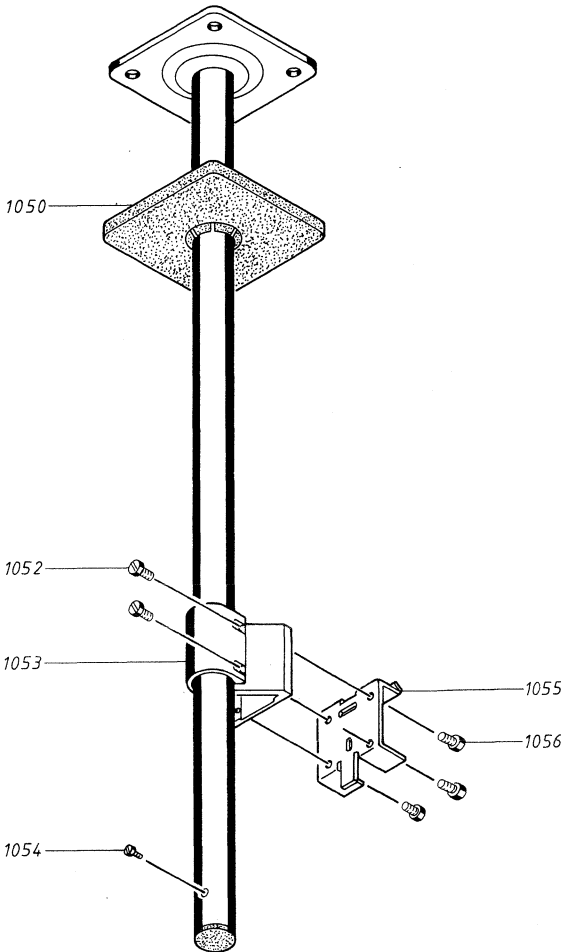
When re-assembling the loudspeaker, a torque of 16.5 kp/cm is recommended.

RL 7000, type 6523

Survey of accessories

8960216	Wall Brakcet
3390263	Bag w. parts for Wall Bracket

Ceiling Bracket, type 6023



List of Mechanical Parts
8960230

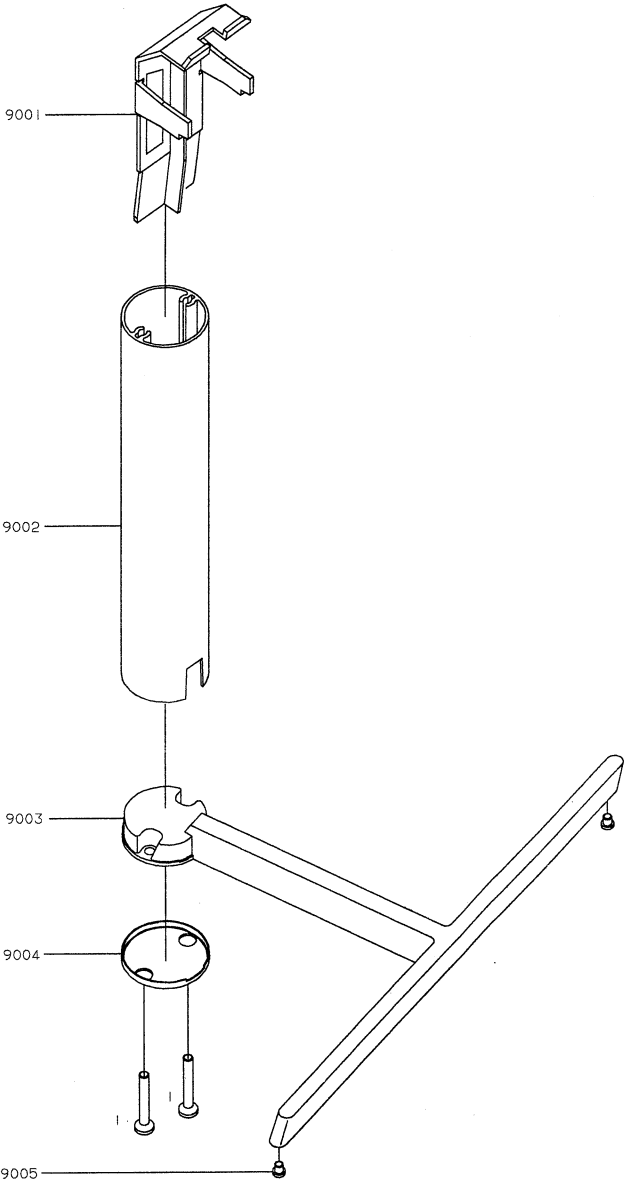
1050	3162224	Cover plate
1052	2044035	Screw AM5x10
1053	2644000	Triangle with ribbon
1054	2042201	Screw AM5x10
1055	3031116	Standard mounting bracet
1056	2044035	Screw AM5x10

Parts not shown

3390262	Bag with parts
3506105	Mounting instruction

RL 7000, type 6523

Stand, type 6035



List of Mechanical Parts

1603513, Grey

1603566, Black

1603569, Silvergrey

9001	3031312	Fitting
9002	2570077	Stanchion
9003	3103305	Base, Grey
	3103334	Base, Black
	3103335	Base, Silvergrey
9004	3454676	Bottom
9005	3035055	Slide Shoe

Survey of Screws

1	2046013	Screw 6x20
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Parts not shown

3392141	Wrapper
3397715	Foam packing, Bottom
3397716	Foam packing, Top